



#9a

## SEQUENCE LISTING

<110> Huse, William D.  
Watkins, Jeffry D.

<120> Tumor Specific Human Monoclonal Antibodies and Methods  
of Use

<130> P-IX 2947

<140> 09/203,768

<141> 1998-12-02

<160> 8

<170> PatentIn Ver. 2.0

<210> 1

<211> 417

<212> DNA

<213> Homo sapiens

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<221> CDS

<222> (1)..(417)

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<221> sig\_peptide

<222> (1)..(57)

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1				5						10					15	

gtc	ctg	tcc	cag	gtg	cag	cta	cag	cag	tgg	ggc	gca	gga	ctg	ttg	aag	96
Val	Leu	Ser	Gln	Val	Gln	Leu	Gln	Gln	Trp	Gly	Ala	Gly	Leu	Leu	Lys	
			20						25						30	

cct	tcg	gag	acc	ctg	tcc	ctc	acc	tgc	gct	gtc	tat	ggt	ggg	tcc	ttc	144
Pro	Ser	Glu	Thr	Leu	Ser	Leu	Thr	Cys	Ala	Val	Tyr	Gly	Gly	Ser	Phe	
			35					40							45	

agt	ggt	tac	tac	tgg	agc	tgg	atc	cgc	cag	ccc	cca	ggg	aag	ggg	ctg	192
Ser	Gly	Tyr	Tyr	Trp	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	
			50				55								60	

gag	tgg	att	ggg	gaa	atc	aat	cat	agt	gga	agc	acc	aac	tac	aac	ccg	240
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115

120

125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
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&lt;210&gt; 3

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;222&gt; (1)..(351)

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&lt;222&gt; (1)..(24)

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ctc tgg ctc cca gat acc act gga gaa ata gtg atg acg cag tct cca	48
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gcc acc ctg tct gtg tct cca ggg gaa aga gcc acc ctc tcc tgc agg	96
Ala Thr Leu Ser Val Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg	
20 25 30	
gcc agt cag agt gtt agc agc aac tta gcc tgg tac cag cag aaa cct	144
Ala Ser Gln Ser Val Ser Ser Asn Leu Ala Trp Tyr Gln Gln Lys Pro	
35 40 45	
ggc cag gct ccc agg ctc ctc atc tat ggt gca tcc acc agg gcc act	192
Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Thr Arg Ala Thr	
50 55 60	
ggt atc cca gcc agg ttc agt ggc agt ggg tct ggg aca gag ttc act	240
Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr	
65 70 75 80	
ctc acc atc agc agc ctg cag tct gaa gat ttt gca gtt tat tac tgt	288
Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys	
85 90 95	
cag cag tat aat aac tgg cct ccg tac act ttt ggc cag ggg acc aag	336
Gln Gln Tyr Asn Asn Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys	
100 105 110	

ctg gag atc aaa cga  
 Leu Glu Ile Lys Arg  
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351

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 20 25 30  
 Ala Ser Gln Ser Val Ser Ser Asn Leu Ala Trp Tyr Gln Gln Lys Pro  
 35 40 45  
 Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Thr Arg Ala Thr  
 50 55 60  
 Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr  
 65 70 75 80  
 Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys  
 85 90 95  
 Gln Gln Tyr Asn Asn Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys  
 100 105 110  
 Leu Glu Ile Lys Arg  
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tcg gtg aag gtc tcc tgc aag gct tct gga ggc acc ttc agc agc tat				96
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr				
20		25	30	
gct atc agc tgg gtg cga cag gcc cct gga caa ggg ctt gag tgg atg				144
Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met				
35	40	45		
gga ggg atc atc cct atc ttt ggt aca gca aac tac gca cag aag ttc				192
Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe				
50	55	60		
cag ggc aga gtc acg att acc gcg gac gaa tcc acg agc aca gcc tac				240
Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr				
65	70	75	80	
atg gag ctg agc agc ctg aga tct gag gac acg gcc gtg tat tac tgt				288
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys				
85	90	95		
gcg aga gaa gat agc agt ggc tgg tat cac tac tgg ggc cag gga acc				336
Ala Arg Glu Asp Ser Ser Gly Trp Tyr His Tyr Trp Gly Gln Gly Thr				
100	105	110		
ctg gtc acc gtc tcc tca				354
Leu Val Thr Val Ser Ser				
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<212> PRT

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Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Asp Ser Ser Gly Trp Tyr His Tyr Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser  
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aca gtc agg atc aca tgc caa gga gac agc ctc aga agc tat tat gca 96  
Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala  
20 25 30

agc tgg tac cag cag aag cca gga cag gcc cct gta ctt gtc atc tat 144  
Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
35 40 45

ggt aaa aac aac cgg ccc tca ggg atc cca gac cga ttc tct ggc tcc 192  
Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser  
50 55 60

agc tca gga aac aca gct tcc ttg acc atc act ggg gct cag gcg gaa 240  
Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu  
65 70 75 80

gat gag gct gac tat tac tgt aac tcc cgg gac agc agt ggt aac ccc 288  
Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn Pro  
85 90 95

gtg gta ttc ggc gga ggg acc aag ctg acc gtc cta ggt cag ccc 333  
 Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro  
           100                          105                          110

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           20                          25                          30  
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
           35                          40                          45  
 Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser  
   50                          55                          60  
 Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu  
   65                          70                          75                          80  
 Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn Pro  
           85                          90                          95  
 Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro  
           100                          105                          110